

VOLUME 3. TABLE OF CONTENTS

AIR OPERATOR TECHNICAL ADMINISTRATION

	Page
CHAPTER 1. OPERATIONS SPECIFICATIONS	
Section 1. Background Information	
1. Applicability	3-1
3. History of OpSpecs	3-1
5. Conceptual Need for OpSpecs.....	3-1
7. Legal Basis for OpSpecs	3-1
9. Standard OpSpecs	3-2
11. Availability of OpSpecs to Crewmembers and Other Employee Personnel.....	3-2
12.-20. Reserved	3-2
Section 2. Automated Operations Specifications	
21. General	3-13
23. Air Operator Vital Information Subsystem	3-13
25. Operations Specifications Checklist	3-14
27. Operations Specifications Worksheets	3-14
29. Drafts of Operations Specifications	3-15
31. Format of Automated Operations Specifications	3-15
33. Table of Contents for Operations Specifications	3-16
35. Automated Features and Symbology of Automated Operations Specifications Paragraphs	3-16
37. Additional Text	3-22
39. Reserved Paragraphs and Nonstandard Paragraphs	3-22
41. Printing Automated Operations Specifications	3-23
43. Completing the Reverse Side and Approval of Operations Specifications	3-23
45. Operator's Receipt of Approved Operations Specifications	3-25
46.-60. Reserved	3-25
Section 3. Operations Specifications Part A—General	
61. Discussion	3-38
63. A1—Issuance and Applicability	3-38
65. A2—Definitions and Abbreviations	3-43
67. A3—Airplane/Aircraft Authorization	3-43
69. A4—Summary of Special Authorizations and Limitations	3-43
71. A5—Exemptions and Deviations	3-49
73. A6—Management Personnel	3-50
75. A7—Other Designated Persons	3-50
77. A8—Operational Control	3-50
79. A9—Airport Aeronautical Data	3-51
81. A10—Aeronautical Weather Data	3-51
83. A11—Approved Carry-On Baggage Program	3-52
85. A12—Domestic Operations to Certain Foreign Airports	3-52
87. A13—Part 121 Operations Without Certain Emergency Equipment	3-52
89. A14—IFR Operations Outside Controlled Airspace	3-53
91. A15—Autopilot in Lieu of Required Second-In-Command	3-53
93. A16—Single Pilot, Single Pilot-In-Command, or Basic Part 135 Operators	3-54

VOLUME 3. TABLE OF CONTENTS—Continued

	Page
95. A17—Approved Security Program for Helicopters	3-54
97. A18—Scheduled Helicopter Operations	3-54
99. A19—Automotive Gasoline as Aircraft Fuel	3-55
101. A20—Airplane Operations Without Instrument-Rated Pilots	3-55
103. A21—Aeromedical Helicopter Operations	3-56
105. A28—Aircraft Wet Lease Arrangements	3-57
107. A29—Aircraft Interchange Arrangements	3-57
109. A30—Part 121 Supplemental Operations	3-57
110.-120. Reserved	3-57
 Section 4 . Part B—En Route Authorizations and Limitations	
121. B31—Areas of En Route Operation	3-64
123. B32—En Route Limitations and Provisions	3-64
125. B33—Flight Rules, Limitations, and Provisions	3-64
127. B34—Class I Navigation Using Area Navigation Systems	3-64
129. B35—Class I Navigation in the U.S. Positive Control Area (PCA) Using Area or Long-Range Navigation Systems	3-65
131. B36—Class II Navigation Using Long-Range Navigation Systems or a Flight Navigator	3-65
133. B37—Operations in Central East Pacific (CEPAC) Composite Airspace	3-66
135. B38—North Pacific (NOPAC) Operations	3-67
137. B39—Operations Within North Atlantic (NAT) Minimum Navigation Performance Specifications (MNPS) Airspace	3-67
139. B40—Operations in Areas of Magnetic Unreliability	3-68
141. B41—North Atlantic Operation (NAT/OPS) with Two-Engine Airplanes Under Part 121	3-69
143. B42—Extended-Range Operations with Two-Engine Airplanes Under Part 121 (ER-OPS)	3-69
145. B43—Special Fuel Reserves in International Operations	3-71
147. B44—Planned Inflight Redispatch or Rerelease En Route	3-72
149. B50—Authorized Areas of En Route Operation, Limitations, and Procedures ...	3-72
150.-160. Reserved	3-76
 Section 5. Part C—Airplane Terminal Instrument Procedures and Airport Authorizations and Limitations	
161. General	3-85
163. C51—Terminal Instrument Procedures	3-85
165. C52—Basic Instrument Approach Procedure Authorizations--All Airports	3-85
167. C53—IFR Landing Minimums Other than Categories II and III--All Airports ...	3-85
169. C54—Special Limitations and Provisions for Instrument Approach Procedures and IFR Landing Minimums	3-85
171. C55—Alternate Airport IFR Weather Minimums	3-86
173. C56—IFR Takeoff Minimums, Part 121 Operations--All Airports	3-87
175. C57—IFR Takeoff Minimums, Part 135 Operations--All Airports	3-87
177. C58—Special Restrictions for Foreign Terminal Instrument Procedures	3-87
179. C59—Category II (CAT II) Instrument Approach and Landing Operations	3-87
181. C60—Category III Instrument Approach and Landing Operations	3-91
183. C61—Flight Control Guidance Systems for Automatic Landing Operations Other than Categories II and III	3-96
185. C62—Manually Flown Flight Control Guidance System Certified for Landing Operations Other than Categories II and III	3-96
187. C63—Instrument Approach Operations Using an Area Navigation System (TBD)*	3-97

*(TBD)=TO BE DEVELOPED

VOLUME 3. TABLE OF CONTENTS—Continued

	Page
189. C64—Special Terminal Area IFR Operations - Authorizations, Limitations, and Provisions	3-97
191. C65—Powerback Operations with Airplanes	3-97
193. C66—Turbojet Airplane Takeoff Operations in Tailwind Conditions	3-98
195. C67—Special Airport Authorizations, Provisions, and Limitations	3-98
196. C68—Noise Abatement Departure Profiles (NADP) Item 7k	3-99
197. C70—Airports Authorized for Scheduled Operations	3-99
198.-210. Reserved	3-100
 Section 6. Part H—Helicopter Terminal Instrument Procedures and Airport Authorizations and Limitations	
211. General	3-105
213. H101—Terminal Instrument Procedures	3-105
215. H102—Basic Instrument Approach Procedure Authorizations—All Airports	3-105
217. H103—I FR Landing Minimums Other than Airborne Radar and Categories II and III Approaches—All Airports	3-105
219. H104—Helicopter En Route Descent Areas (HEDA)	3-105
221. H105—Alternate Airport IFR Weather Minimums	3-105
223. H106—I FR Takeoff Minimums, Helicopter Operations--All Airports	3-105
225. H107—Special Restrictions for Foreign Terminal Instrument Procedures	3-106
227. H108—Category II (CAT II) Instrument Approach and Landing Operations	3-106
229. H109—Category III (CAT III) Instrument Approach and Landing Operations ...	3-107
231. H110—Flight Control Guidance Systems for Automatic Landing Operations Other than Categories II and III	3-108
233. H111—Manually Flown Flight Control Guidance System Certified for Landing Operations Other than Categories II and III (TBD)	3-108
235. H112—Instrument Approach Operations Using an Area Navigation System (TBD) 3-108	3-108
237. H113—Special Terminal Area IFR Operations—Authorizations, Limitations, and Provisions	3-109
239. H114—Special Airport Authorization, Provisions, and Limitations (TBD)	3-109
241. H120—Airports Authorized for Scheduled Operations	3-109
242.-260. Reserved	3-110
 Section 7. Amendment, Surrender, and Suspension of Operations Specifications	
261. Applicability	3-123
263. Amendment Process Using Automated Operation Specifications	3-123
265. Amendment of Operation Specifications	3-123
267. Emergency Amendment of Operation Specifications	3-124
269. Operator Appeal Rights	3-123
271. Surrendering of Operation Specifications	3-126
273. Suspension of Operation Specifications	3-126
274.-280. Reserved	3-126
 CHAPTER 2. TRAINING PROGRAMS AND AIRMAN QUALIFICATIONS	
 Section 1. Scope, Concepts, and Definitions	
281. Training Program Overview	3-157
283. Definitions	3-157
285. Aircraft Families	3-159
287. Training Programs: A Schematic Depiction	3-160
289. Categories of Training	3-162
291. Applicability of Training Categories	3-166
293. Curriculum Development	3-166

VOLUME 3. TABLE OF CONTENTS—Continued

	Page
295. Curriculum Segments	3-167
297. Training Module Construction (Elements or Events)	3-169
299. Deleted	3-170
300.-310. Reserved	3-170
 Section 2. Training Approval Process	
311. General	3-175
313. Operations Conducted Under Both Parts 121 and 135	3-175
315. Initiating the Approval Process—Phase One	3-175
317. FAA Involvement In Phase One	3-176
319. Requests for Initial Approval—Phase Two	3-177
321. Additional Relevant Supporting Information—Phase Two	3-178
323. Initial Review of Requests for Approval—Phase Two	3-178
325. Training Curriculums Submitted with Air Operator Certificate Applications	3-179
327. Indepth Review of Submitted Curriculums—Phase Three	3-179
329. Expiration Dates for Initial Approvals	3-180
331. Method of Granting Initial Approval	3-180
333. Method of Denying Initial Approval	3-183
335. Evaluating Initially Approved Training Curriculums—Phase Four	3-184
337. Elements Available for Evaluating Training—Phase Four	3-184
339. Method for Granting Final Approval—Phase Five	3-185
341. Revisions to Training Curriculums	3-188
343. Withdrawing Approval of Training Curriculums	3-188
345. Expired Training Curriculums	3-188
347. Withdrawal of Initial Approval of Training Curriculums	3-189
349. Withdrawal of Final Approval of Training Curriculums	3-190
351. Organization of District Office Training Program Files	3-192
352.-360. Reserved	3-192
 Section 3. Flightcrew Basic Indoctrination Curriculum Segments	
361. General	3-203
363. Objective of Basic Indoctrination	3-203
365. Operator-Specific Indoctrination	3-203
367. Airman-Specific Indoctrination Training	3-203
369. Flightcrew Basic Indoctrination Training Modules	3-204
371. Training Hours	3-205
373. Course Completion Requirements	3-206
375. Content of Flightcrew Basic Indoctrination Curriculum Segments	3-206
377. Operator-Specific Training Modules	3-206
379. Airman-Specific Training Modules	3-207
381. Evaluation of Flightcrew Basic Indoctrination Curriculum Segment Outlines for Initial Approval	3-208
383. Flight Crewmember Basic Indoctrination Curriculum Segment Job Aid	3-208
385. Drug/Alcohol Testing Program Approval and Inclusion in Basic Indoctrination Training	3-209
386.-390. Reserved	3-209
 Section 4. Flightcrew General Emergency Training Curriculum Segments	
391. General	3-217
393. General Emergency Training Curriculum Segments	3-217
395. Recurrent General Emergency Training	3-218
397. General Emergency Training Modules	3-219
399. Training Hours	3-220

VOLUME 3. TABLE OF CONTENTS—Continued

	Page
401. Course Completion Requirements	3-221
403. Content of Flight Crewmember General Emergency Training Curriculum Segments	3-221
405. Emergency Situation Training Modules	3-221
407. Emergency Drill Training Modules	3-222
409. Recurrent General Emergency Training Modules	3-222
411. Cabin and Exit Mockups	3-223
413. Evaluation of Flight Crewmember General Emergency Training Curriculum Segment Outlines for Initial Approval	3-223
415. Flight Crewmember General Emergency Training Job Aid	3-223
416.-424. Reserved	3-223
 Section 5. Flightcrew Aircraft Ground Training Curriculum Segments	
425. General	3-233
427. Aircraft Ground Training Objectives	3-233
429. Aircraft Ground Training Curriculum Segments	3-233
431. Aircraft Ground Training Modules	3-233
433. Training Hours	3-235
435. Course Completion Requirements	3-238
437. Content of Aircraft Ground Curriculum Segments	3-238
439. General Operational Subjects	3-238
441. Aircraft Systems	3-240
443. Aircraft Systems Integration Training	3-241
445. Ground Training Devices	3-242
447. Evaluation of Ground Training Curriculum Segment Outlines for Initial Approval	3-243
449. Aircraft Ground Training Curriculum Segment Job Aid	3-243
450.-460. Reserved	3-243
 Section 6. Flight Training Curriculum Segments	
461. General	3-253
463. Flight Training Objectives	3-253
465. Qualification Objectives	3-253
467. Flight Training Modules or Event Outlines	3-253
469. Training Hours	3-255
471. Course Completion Requirements	3-259
473. Evaluation of Flight Training Curriculum Segment Outlines for Initial Approval	3-259
475. Evaluating the Operator's Maneuvers and Procedures Document	3-259
477. Aircraft Families	3-260
479. Flight Training Devices and Flight Simulators	3-260
481. Level 4 Flight Training Device	3-260
483. Level 5 Flight Training Device	3-261
485. Level 6 Flight Training Device	3-261
487. Level 7 Flight Training Device	3-261
489. Level A Flight Simulator	3-261
491. Level B Flight Simulator	3-262
493. Level C Flight Simulator	3-262
495. Level D Flight Simulator	3-263
497. Maneuvers and Procedures Tables	3-263
499. PIC/SIC Initial New-Hire and Initial Equipment Flight Training: Transport and Commuter Category Airplanes	3-264
501. PIC/SIC Transition and Upgrade Flight Training: Transport and Commuter Category Airplanes	3-267
503. PIC/SIC Recurrent Flight Training (RFT): Transport and Commuter Category Airplanes	3-270

VOLUME 3. TABLE OF CONTENTS—Continued

	Page
505. FE Initial Equipment, Initial New-Hire, Transition and Recurrent Flight Training: Transport Category Airplanes	3-274
507. PIC/SIC Flight Training (All Training Categories): Multiengine General Purpose Airplanes	3-277
509. PIC/SIC Flight Training (All Training Categories): Single-Engine Airplanes	3-280
511. PIC/SIC Flight Training (All Training Categories): Helicopters	3-283
512.-522. Reserved	3-283
 Section 7. Flightcrew Qualification Curriculum Segments	
523. General	3-293
525. Types of Qualification Modules	3-293
527. Format of Qualification Curriculum Segments	3-294
529. Part 121 Required Certificates	3-294
531. Part 135 Required Certificates	3-294
533. Part 135 Minimum PIC Flight Experience Requirements	3-295
535. The Basic Checking Module	3-296
537. Part 121 Basic Checking Module	3-296
539. Part 135 Basic Checking Module	3-301
541. Deleted	3-309
543. Credit for Certification Flight Checks	3-309
545. Conduct of Proficiency and Competency Checks	3-309
547. Use of Flight Training Devices and Simulators for Proficiency and Competency Checks	3-310
549. The “Operating Experience” (OE) Qualification Module	3-310
551. The Line Check Qualification Module	3-312
553. Additional Checking Modules	3-313
554.-566. Reserved	3-314
 Section 8. Special Curriculum Segments	
567. General	3-323
569. Special Curriculum Segment Content	3-323
571. Special Curriculum Segment Approval	3-323
573. Specific Applications of Special Curriculums	3-323
574.-578. Reserved	3-324
 Section 9. Differences Training—All Training Categories	
579. General	3-331
581. Methods for Accounting for Differences	3-331
583. Specific Situations Requiring Differences Training	3-332
585. Differences Evaluation	3-332
587. Degrees of Differences	3-334
589. Recurrent Differences Training and Currency Events	3-334
591. Approval Process	3-335
593. Seat-Dependent Training	3-335
594.-598. Reserved	3-335
 Section 10. Flightcrew Recurrent Training Curriculums	
599. General	3-343
601. Objective of Recurrent Training	3-343
603. Training/Checking Month and Eligibility Periods	3-343
605. Recurrent Aircraft Ground Training Curriculum Segments	3-344
607. Written or Oral Testing	3-345
609. Recurrent General Emergency Training Curriculum Segments	3-345

VOLUME 3. TABLE OF CONTENTS—Continued

	Page
611. Recurrent Flight Training and Qualification Curriculum Segments—Part 121 ...	3-346
613. Recurrent Flight Training and Qualification Curriculum Segments—Part 135 ...	3-347
614.-616. Reserved	3-348
 Section 11. Flightcrew Requalification Training Curriculums	
617. General	3-353
619. Re-Establishing Landing Currency of Part 121 Pilots	3-353
621. Re-Establishing Currency of Part 121 Flight Engineers	3-354
623. Re-Establishing Landing Currency of Part 135 Pilots	3-354
625. Requalification for Failure to Complete Recurrent Training During the Eligibility Period	3-355
627. Crewmembers Who are Noncurrent or Overdue Upon Reassignment to a Different Type of Aircraft	3-357
629. Crewmembers Reassigned to a Previously Held Duty Position in an Aircraft Currently Being Flown	3-357
631. Requalification of Flight Crewmembers Who Have Failed a Check	3-358
633. Evaluation of Requalification Training Curriculums for Initial Approval	3-358
634.-636. Reserved	3-358
 CHAPTER 3. CHECK AIRMAN, INSTRUCTOR, AND SUPERVISOR PROGRAMS	
Section 1. General	
637. Introduction	3-365
639. Regulatory Requirements	3-365
640. Exemptions	3-365
641. Definitions	3-365
643. Check Airman Role and Characteristics	3-366
645. Classifications of Check Airmen	3-366
647. Proficiency Check Airman—Aircraft (Includes Simulator)	3-366
649. Proficiency Check Airman—Simulator	3-367
651. Line Check Airman—All Seats (Left Pilot Seat, Right Pilot Seat, and Observer's Seat)	3-368
653. Line Check Airman—Observer's Seat Only	3-369
655. Check Airman—All Checks	3-369
657. WITHDRAWN—CHG11	3-370
659. Check Flight Engineer	3-370
661. Air Transportation Instructor Role and Characteristics	3-370
663. Air Transportation Flight Instructor—Aircraft	3-370
665. Air Transportation Flight Instructor—Simulator	3-371
667. Air Transportation Ground Instructor	3-372
669. FAR Part 121 Supervisors, Flight Attendant and Aircraft Dispatcher	3-372
670.-680. Reserved	3-372
 Section 2. Check Airman Approval Process	
681. General	3-379
683. Phase One—Operator Familiarization with Check Airman Requirements and Letter of Request.....	3-379
685. Phase Two—Submission of Documentation	3-379
687. Phase Three—Review of Documentation	3-379
689. Phase Four—Check Airman Evaluation	3-380
691. Phase Five—Check Airman Approval	3-382
693. WITHDRAWN CHG11	3-382
695. Approval of Initial Cadre Check Airmen	3-382

VOLUME 3. TABLE OF CONTENTS—Continued

	Page
696. Training, Certification, and Qualification—Start-up	3-383
697. Approval of a Check Airman in Multiple Aircraft	3-383
699. Approval of a Check Airman to Serve Multiple Operators	3-384
700. Check Airman Employed by Training Centers	3-384
701. Crewmember Failure Rates	3-385
703. Surveillance of Check Airmen	3-385
704.-712. Reserved	3-386
 Section 3. Check Airman and Air Transportation Flight Instructor Training	
713. General	3-403
715. Training for Flight Instructors and Check Airmen	3-403
716.-726. Reserved	3-405
 CHAPTER 4. THE ADVANCED QUALIFICATION PROGRAM	
Section 1. Distinguishing Features of the Advanced Qualification Program	
727. General	3-413
729. Characteristics of AQP	3-413
731. Key Concepts and Special Terminology	3-414
733. Instructors	3-416
735. Training and Evaluation Under AQP	3-416
736.-746. Reserved	3-417
Section 2. The Advanced Qualification Program Approval Process	
747. General	3-431
749. Phased Approval Procedures	3-431
751. Data Base Management and Analysis	3-435
753. Method of Granting Initial or Provisional Approval	3-435
755. Method of Denying Initial or Provisional Approval	3-435
757. Withdrawal of Initial or Provisional Approval	3-435
759. Final Approval	3-435
761. Revisions to an AQP	3-436
763. General Provisions for Withdrawal of Final Approval	3-436
765. Appeal of a Withdrawal	3-436
766.-776. Reserved	3-436
Section 3. Advanced Qualification Program Airman Certification	
777. General	3-449
779. Completion of Qualification Curriculum	3-449
781. Demonstration of Individual Skills	3-449
783. Authorized Evaluation Personnel	3-449
785. Airman Certification Documents	3-449
786.-796. Reserved	3-450
Section 4. Advanced Qualification Program Surveillance	
797. General	3-461
799. Reporting on Surveillance	3-461
801. Specific Types of Inspections	3-461
802.-1044. Reserved	3-461
 CHAPTER 5. AIRCRAFT DISPATCHER TRAINING AND QUALIFICATION PROGRAMS	
Section 1. Aircraft Dispatcher Training Curriculums	
1045. General	3-525

VOLUME 3. TABLE OF CONTENTS—Continued

	Page
1047. Definitions	3-525
1049. Training Programs: A Schematic Depiction	3-527
1051. Categories of Training	3-529
1053. Curriculum Development	3-530
1054.-1060. Reserved	3-530
 Section 2. Aircraft Dispatcher Training Approval Process (TBD)	
1061.-1070. Reserved	3-537
 Section 3. Aircraft Dispatcher Basic Indoctrination Curriculum Segments	
1071. General	3-549
1073. Aircraft Dispatcher Basic Indoctrination Training	3-549
1075. Aircraft Dispatcher Basic Indoctrination Training Modules	3-550
1077. Curriculum Segment Completion Requirements	3-551
1079. Evaluation of Training Hours	3-552
1081. Evaluation of an Aircraft Dispatcher Basic Indoctrination Curriculum Segment Outline for Initial Approval	3-552
1082.-1092. Reserved	3-552
 Section 4. Aircraft Dispatcher Initial Equipment and Transition Ground Training Curriculum Segments	
1093. General	3-561
1095. Areas of Emphasis	3-562
1097. Evaluation of Training Hours	3-563
1099. Evaluation of an Aircraft Dispatcher General Ground Training Curriculum Segment Outline for Initial Approval	3-563
1100.-1110. Reserved	3-563
 Section 5. Aircraft Dispatcher Qualification Curriculum Segments and Recurrent and Requalification Curriculums	
1111. General	3-573
1113. Competency Checks	3-573
1115. Operational Familiarization Flights	3-574
1117. Qualification Curriculum Segments of Initial New-Hire and Initial Equipment Categories of Training	3-575
1119. Qualification Curriculum Segments in the Transition Category of Training.....	3-575
1121. Recurrent Training	3-575
1123. Area Familiarization	3-576
1125. Requalification Training	3-576
1126.-1144. Reserved	3-576
 CHAPTER 6. OPERATIONAL CONTROL	
 Section 1. General Topics	
1145. Background and Definitions	3-585
1147. WITHDRAWN—CHG 8	3-587
1149. Aircraft Dispatchers	3-587
1151. Flight Information	3-587
1153. Weather Information for Control of Flight Operations	3-590
1155. Flight Planning	3-591
1157. Selection of Alternate Airports	3-593
1159. Load Control	3-594
1161. Airworthiness of Aircraft	3-594

VOLUME 3. TABLE OF CONTENTS—Continued

	Page
1163. Crew Qualification and Crew Flight Time Limitations and Rest Requirements ...	3-594
1165. Crew Medical Qualification and Procedures During Temporary Medical Deficiency	3-595
1166.-1174. Reserved	3-595
 Section 2. Flight Dispatch Systems and Domestic Operating Rules	
1175. General	3-603
1177. Facilities and Staffing	3-604
1179. Aircraft Dispatcher Duty Time Limitations	3-605
1181. Weather Requirements for Dispatch Under Domestic Rules	3-606
1183. Fuel Supply--Domestic Operations	3-607
1185. Original Dispatch	3-607
1187. Amendment of a Dispatch Release	3-608
1189. Load Manifests	3-610
1191. En Route Terrain Clearance	3-610
1192.-1202. Reserved	3-610
 Section 3. Part 121 Flight Release Systems and Supplemental Operating Rules	
1203. General	3-617
1205. Familiarity with Weather Conditions, Facilities, and Services	3-617
1207. Flight Release System Facilities	3-618
1209. Flight Release Form	3-618
1211. Weather Requirements for Flight Release Within the Contiguous States	3-618
1213. Fuel Supply--Operations in the Contiguous States	3-619
1215. Amendment of a Flight Release	3-620
1217. En Route Terrain Clearance	3-621
1218.-1228. Reserved	3-621
 Section 4. Part 121 Flag Operations, Supplemental Operations Outside the Contiguous States, and Extended Overwater Operations	
1229. General	3-629
1231. Destination Weather Minimums	3-629
1233. Designation of Destination Alternate Airports	3-629
1235. Required Fuel Supply: Non-Turbine and Turbopropeller Airplanes	3-630
1237. Required Fuel Supply: Turbojet-Powered Airplanes	3-631
1239. Special Fuel Reserves	3-632
1241. Planned Redispatch and Rerelease	3-633
1242.-1252. Reserved	3-635
 Section 5. Federal Aviation Regulations Part 135 Flight-Locating Systems and Operating Rules	
1253. General	3-643
1255. General Requirements	3-643
1257. Flight-Locating Systems	3-643
1259. Part 135 Fuel-Planning Requirements	3-644
1261. Weather Requirements	3-645
1263. IFR Passenger-Carrying, Over-the-Top Operations	3-646
1265. Overwater, Passenger-Carrying Operations	3-646
1267. Part 135 Extended Overwater Operations	3-646

VOLUME 3. TABLE OF CONTENTS—Continued

	Page
1268.-1400. Reserved	3-647
CHAPTER 7. AVIATION WEATHER INFORMATION SYSTEMS	
Section 1. General Background Information	
1401. General	3-657
1403. Background Discussion	3-657
1405. Aeronautical Weather Data	3-657
1407. Policy on Conditional Phrases in Remarks Portion of Weather Forecast	3-658
1409. Policy for Determining the Continued Adequacy of Weather Reports and Observations	3-658
1411. Sources for Technical Assistance and Meteorological References	3-659
1413. Definitions, Acronyms, and ICAO Equivalent Terms	3-659
1414.-1416. Reserved	3-661
Section 2. Parts 121/135 Weather Information Systems	
1417. Regulatory Requirements for Weather Information	3-666
1419. General Characteristics of a Weather Information System	3-666
1421. Weather Information Systems--Operational Requirements	3-666
1423. Operational Requirements--Flightcrews	3-666
1425. Operational Requirements--Dispatch and/or Flight Control Personnel	3-667
1427. Adverse Weather Phenomena Reporting and Forecasting Requirements	3-667
1429. Approval of Adverse Weather Phenomena Reporting and Forecasting Subsystems	3-668
1431. Special Operational Requirements	3-669
1432.-1434. Reserved	3-670
Section 3. Sources of Weather Information	
1435. General	3-677
1437. Regulatory Requirements Sources of Weather Reports	3-677
1439. Sources of NWS Weather Reports or Sources Approved by NWS	3-677
1441. Sources of Weather Reports Approved or Found Satisfactory by the FAA	3-678
1443. Sources of Weather Reports Used in Preparing Adverse Weather Phenomena Forecasts	3-678
1445. Sources of Weather Forecasts	3-678
1447. Automated Weather Reporting Systems	3-679
1448.-1452. Reserved	3-680
Section 4. Enhanced Weather Information Systems	
1453. General	3-687
1455. Concept of an EWINS	3-687
1457. Characteristic Functions of an EWINS	3-687
1459. FAA Policies Concerning EWINS's	3-687
1461. EWINS Policies and Procedures Manual	3-688
1463. Personnel Qualifications	3-689
1465. Training for Dispatchers with FMF Authority	3-689
1467. Approval of an EWINS	3-691
1468.-1472. Reserved	3-691
CHAPTER 8. AIR CARRIER MANAGEMENT EFFECTIVENESS	
Section 1. Scope and Concepts	
1473. General	3-697
1475. Management Overview	3-697
1477. Air Carrier Compliance Alert Indicators	3-698

VOLUME 3. TABLE OF CONTENTS—Continued

	Page
1479. Emphasis Areas	3-698
1481. Training Programs	3-698
1483. Manuals and Procedures	3-699
1485. Recordkeeping Systems	3-699
1487. Flightcrew Scheduling	3-699
1489. Operational Control	3-700
1491. Use of MEL and CDL	3-701
1492.-1550. Reserved	3-701
 CHAPTER 9. PROVING AND VALIDATION TESTS	
Section 1. Background	
1551. General	3-717
1553. Proving Tests	3-717
1555. Validation Tests	3-717
1557. Testing Methods Acceptable to the Administrator	3-717
1559. Handbook Discussion of Proving and Validation Tests	3-718
1560.-1564. Reserved	3-718
Section 2. The Proving and Validation Test Process	
1565. Phase One	3-725
1567. Phase Two	3-725
1569. Phase Three	3-726
1571. Phase Four	3-726
1573. Phase Five	3-726
1574.-1578. Reserved	3-726
Section 3. Proving Test Requirements	
1579. General	3-743
1581. Situations Requiring Proving Tests	3-743
1583. Part 121 Applicant Proving Test Requirements	3-744
1585. Part 135 Applicant Proving Test Requirements	3-744
1587. Deviations to Proving Test Requirements	3-744
1589. Representative Number of Flights into Airports	3-744
1591. Carriage of Passengers and Cargo	3-745
1593. Crew Qualifications for Proving Tests	3-745
1595. WITHDRAWN—CHG 8	3-745
1597. Provisionally Certificated Aircraft	3-745
1598.-1602. Reserved	3-745
Section 4. Planning the Proving Test	
1603. Applicant's Plan for Proving Tests	3-751
1605. Applicant's Plan for Reduced Proving Test Hours	3-751
1607. FAA Planning for Proving Tests	3-751
1609. WITHDRAWN—CHG 8	3-751
1611. Other Proving Test Participants	3-751
1613. Coordination	3-752
1615. Pre-Demonstration Test Meeting (FAA Team)	3-752
1616.-1622. Reserved	3-753
Section 5. Proving Tests: The Demonstration Phase	
1623. General	3-759
1625. Conduct of En Route Flights	3-759

VOLUME 3. TABLE OF CONTENTS—Continued

	Page
1627. Conduct of Other Flights	3-761
1629. Termination of the En Route Segment	3-761
1630.-1634. Reserved	3-761
 Section 6. Reporting Procedures	
1635. Report Construction	3-769
1637. Closing the Master Record	3-769
1638.-1642. Reserved	3-770
 Section 7. Request for Deviation of Proving Flight Hours	
1643. General	3-775
1645. Evaluating the Applicant's Request	3-775
1647. Coordination Requirements and Approval Authority for Proving Flight Deviations.....	3-776
1648.-1654. Reserved	3-777
 Section 8. Validation Test Requirements	
1655. General	3-783
1657. Situations Requiring Validation Tests or Flights	3-783
1659. Class II Navigation Authorizations	3-784
1661. Special Performance Authorizations	3-786
1663. Special Operational Authorizations	3-786
1665. Planning the Validation Tests	3-786
1667. Areas Evaluated on Validation Tests or Flights	3-787
1669. Carriage of Revenue Passengers on Validation Flights	3-787
1671. Special Authorizations Information Tables	3-788
1672.-1680. Reserved	3-788
 CHAPTER 10. EMERGENCY EVACUATION AND DITCHING DEMONSTRATIONS	
 Section 1. General	
1681. General	3-843
1683. Regulatory Requirements	3-843
1685. Increasing Seating Capacity by Analysis and Tests, FAR 25.803(d)	3-845
1687. Contents of this Chapter	3-846
1688.-1692. Reserved	3-846
 Section 2. The Aborted Takeoff Emergency Evacuation Demonstration	
1693. The Aborted Takeoff Demonstration: Phase One	3-859
1695. Briefing the Operator on Demonstration Requirements	3-859
1697. The Operator's Plan.....	3-861
1699. The Aborted Takeoff Demonstration: Phase Two	3-863
1701. The Aborted Takeoff Demonstration: Phase Three	3-863
1703. The Aborted Takeoff Demonstration: Phase Four	3-863
1705. The Aborted Takeoff Demonstration: Phase Five	3-864
1706.-1710. Reserved	3-864
 Section 3. Aborted Takeoff Demonstration Procedures	
1711. The Demonstration Team	3-868
1713. Predemonstration Meeting with Operator	3-868
1715. FAA Team Planning	3-868
1717. Selecting Exits	3-868
1719. Blocking Exits	3-869
1721. Initiation Signal	3-869

VOLUME 3. TABLE OF CONTENTS—Continued

	Page
1723. Participants	3-869
1725. Predemonstration Inspection	3-869
1727. Predemonstration Briefings	3-870
1729. Conducting the Demonstration	3-871
1730.-1734. Reserved	3-874
 Section 4. Ditching Demonstrations	
1735. General	3-881
1737. Regulatory Requirements	3-881
1739. The Ditching Demonstration Plan	3-882
1741. Review of the Ditching Demonstration Plan	3-882
1743. Conduct of the Ditching Demonstration	3-882
1744.-1748. Reserved	3-883
 Section 5. Evaluating Evacuation and Ditching Demonstrations	
1749. Areas to be Evaluated	3-888
1751. Determining Results of Demonstrations	3-888
1752.-1754. Reserved	3-888
 Section 6. Reporting Evacuation Demonstrations	
1755. General	3-895
1757. FAA Form 8430-1	3-895
1759. Distribution	3-895
1760.-1764. Reserved	3-895
 Section 7. Maximum Passenger Seating Capacity for Airplanes Used in Part 121 Operations	
1765. Table of Maximum Demonstrated Seating Capacities	3-902
1766.-1770. Reserved	3-902
 CHAPTER 11. OPERATOR RECORDKEEPING	
 Section 1. General	
1771. General	3-951
1773. Characteristics of Information and Records	3-951
1775. Regulatory Requirements.....	3-951
1777. Definitions.....	3-952
1779. Mergers and Acquisitions	3-953
1780.-1790. Reserved	3-953
 Section 2. Acceptance or Approval Process	
1791. General	3-957
1793. Regulatory Requirements	3-957
1795. Guidelines for Approval or Acceptance	3-957
1796.-1806. Reserved	3-957
 Section 3. Currency Periods for Records	
1807. General	3-961
1809. Categories of Records	3-961
1811. Currency Periods for Recordkeeping Systems	3-961
1813. Recommended Advanced Qualification Program (AQP) Currency Periods	3-962
1814.-1826. Reserved	3-962

VOLUME 3. TABLE OF CONTENTS—Continued

	Page
Section 4. Computer-Based Recordkeeping	
1827. General	3-973
1829. Regulatory Requirements	3-973
1831. Guidelines for System Approval	3-973
1833. Granting Approval	3-975
1835. System Surveillance	3-975
1837. Additional System Capabilities	3-975
1838.-1850. Reserved	3-976
CHAPTER 12. ENVIRONMENTAL CONSIDERATIONS AND RESPONSIBILITIES	
Section 1. Background Information	
1851. The Public Law	3-981
1853. Environmental Responsibilities	3-981
1855. Availability of Assistance	3-981
1856.-1860. Reserved	3-981
Section 2. Aircraft Noise	
1861. Pertinent Regulations and Orders	3-989
1863. Flight Standards Responsibilities	3-989
1865. Heavy Airplane Operators' Compliance with Approved Noise Abatement Departure Profiles (NADP)	3-990
1867. Airtour and Sightseeing Operations	3-990
1868. Reserved	3-992
Section 3. Environmental Assessments	
1869. General	3-999
1871. Types of Action Requiring an EA by Field Inspectors	3-999
1873. Official Responsible for Accomplishing the EA	3-999
1875. Collection of Information	3-999
1877. Processing the EA	3-1000
1878.-1882. Reserved	3-1000
CHAPTER 13. LEASE AND INTERCHANGE AGREEMENTS	
Section 1. General	
1883. Background and Definitions	3-1007
1884.-1888. Reserved	3-1007
Section 2. Dry Lease Agreements	
1889. General	3-1014
1890.-1894. Reserved	3-1014
Section 3. Wet Lease Agreements	
1895. General	3-1021
1897. Processing Wet Lease Agreements	3-1021
1899. Determination of Operational Control	3-1021
1901. Amending Operations Specifications	3-1021
1902.-1906. Reserved	3-1022
Section 4. Interchange Agreements	
1907. General	3-1029
1909. Approval Procedures	3-1029

VOLUME 3. TABLE OF CONTENTS—Continued

	Page
1911. Amending Operations Specifications	3-1029
1912.-1916. Reserved	3-1029
 CHAPTER 14. FLIGHT ATTENDANT TRAINING AND QUALIFICATION PROGRAMS	
Section 1. Flight Attendant Training Curriculums	
1917. Overview	3-1037
1919. Definitions	3-1037
1921. Training Programs: A Schematic Depiction	3-1038
1923. Categories of Training	3-1041
1925. Curriculum Development	3-1041
1926.-1934. Reserved	3-1042
Section 2. Flight Attendant Training Approval Process	
1935. General	3-1049
1937. Revisions to Training Curriculums	3-1049
1938.-1944. Reserved	3-1049
Section 3. Flight Attendant Basic Indoctrination Training Curriculum Segment	
1945. General	3-1059
1947. Basic Indoctrination Training Subject Areas	3-1059
1949. Flight Attendant Basic Indoctrination Training Modules	3-1060
1951. Operator-Specific Training Modules	3-1061
1953. Flight Attendant-Specific Training Modules	3-1063
1955. Curriculum Segment Completion Requirements	3-1064
1957. Evaluation of Training Hours	3-1064
1959. Evaluation of a Flight Attendant Basic Indoctrination Curriculum Segment Outline for Initial Approval	3-1064
1961. Flight Attendant Basic Indoctrination Curriculum Segment Job Aid	3-1064
1962.-1972. Reserved	3-1064
Section 4. Flight Attendant General Emergency Training Curriculum Segment	
1973. General	3-1073
1975. General Emergency Training Subject Areas	3-1074
1977. Content of F/A General Emergency Training Curriculum Segment Outline	3-1075
1979. General Emergency Training Modules	3-1075
1981. Emergency Equipment Training Modules	3-1077
1983. Emergency Situation Training Modules	3-1079
1985. Emergency Drill Training Modules	3-1082
1987. Emergency Drills	3-1083
1989. Adaptation of General Emergency Training Curriculum Segments to the Various Categories of Training	3-1087
1991. Curriculum Segment Completion Requirements	3-1087
1993. Evaluation of Training Hours	3-1087
1995. Evaluation of Cabin and Exit Mockups	3-1088
1997. Evaluation of F/A General Emergency Training Curriculum Segment Outline for Initial Approval	3-1088
1999. F/A General Emergency Curriculum Segment Job Aid	3-1088
2000.-2010. Reserved	3-1089
Section 5. Flight Attendant Aircraft Ground Training Curriculum Segment	
2011. General	3-1105
2013. Aircraft Ground Training Curriculum Segment	3-1105

VOLUME 3. TABLE OF CONTENTS—Continued

	Page
2015. General Operational Subjects Training Modules	3-1106
2017. Aircraft-Specific Emergency Subjects Training Modules	3-1114
2019. Adaptation of Flight Attendant Aircraft Ground Training Curriculum Segment to the Various Categories of Training	3-1118
2021. Curriculum Segment Completion Requirements	3-1118
2023. Evaluation of Training Hours	3-1119
2025. Evaluation of Flight Attendant Aircraft Ground Training Curriculum Segment Outline for Initial Approval	3-1119
2026.-2074. Reserved	3-1119
 CHAPTER 15. MANUALS, PROCEDURES, AND CHECKLISTS	
Section 1. Background and Definitions	
2075. Introduction	3-2055
2077. Overview of Manual Requirements	3-2055
2079. Definitions	3-2055
2081. Distribution and Availability of Manuals	3-2057
2083. Review of Manuals	3-2057
2085. Format and Style of Manuals	3-2058
2087. Adequacy of Procedures	3-2059
2088.-2098. Reserved	3-2060
Section 2. Approval and Acceptance of Manuals and Checklists	
2099. General	3-2069
2101. Phase One: Establishing a Framework for Review	3-2069
2103. Phase Two: Preliminary Review	3-2071
2105. Phase Three: In-Depth Review	3-2071
2107. Phase Four: Validation Tests	3-2072
2109. Phase Five: Granting FAA Approval	3-2072
2111. Notification of Deficiencies	3-2073
2113. Emergency Revisions	3-2073
2114.-2124. Reserved	3-2074
Section 3. General Operations Manuals	
2125. General	3-2081
2127. Content of General Operations Manuals	3-2081
2129. Operator Management Structure	3-2081
2131. Authorized Operations	3-2081
2133. Weight and Balance Procedures	3-2082
2135. Operational Control	3-2082
2137. Flight Planning	3-2083
2139. Notices to Airmen (NOTAM) and Pilot Reports (PIREP)	3-2083
2141. Restricted or Suspended Operations	3-2083
2143. International Operations	3-2083
2145. Observer's Seats	3-2084
2147. Line Station Operations	3-2084
2149. Passenger Briefing Procedures	3-2087
2151. Exit Seating Program	3-2088
2153. Use of Portable Electronic Devices	3-2088
2154.-2160. Reserved	3-2088
Section 4. Flight Manuals	
2161. General	3-2095

VOLUME 3. TABLE OF CONTENTS—Continued

	Page
2163. Approved Airplane Flight Manuals (AFM) or Approved Rotorcraft Flight Manuals (RFM)	3-2095
2165. Company Flight Manuals (CFM)	3-2096
2167. Aircraft Systems Description	3-2097
2169. Procedures	3-2097
2171. Normal Procedures	3-2098
2173. Maneuvers and Procedures Document	3-2099
2175. Nonnormal and Emergency Procedures	3-2099
2177. Immediate Actions	3-2099
2179. Mandatory Confirmation Items	3-2100
2181. Crewmember Roles	3-2100
2183. Operations Not Evaluated in Aircraft Certification	3-2101
2185. Limitations	3-2101
2186.-2196. Reserved	3-2101
 Section 5. Aircraft Checklists	
2197. General	3-2109
2199. Checklist Content	3-2109
2201. Methods of Checklist Design	3-2110
2203. Policies for Managing the Accomplishment of Checklists	3-2111
2205. Development and Sequencing of Checklist Items	3-2114
2207. Immediate Action Items	3-2114
2209. Checklist Terminology	3-2114
2211. Aircraft Differences	3-2115
2213. Sequencing Normal Checklists and Other Checklists	3-2115
2215. Checklist Format	3-2115
2216.-2226. Reserved	3-2116
 Section 6. Approval and Acceptance of Flight Attendant Manuals and Checklists	
2227. General	3-2123
2228.-2232. Reserved	3-2123